

Please amend the claims as follows:

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Q4 → 1. (Amended) An organic waveguide comprising:  
a core section made of organic polymer; and  
a clad section covering an upper surface of the core section  
and made of inorganic dielectric having a lower refractive index  
than that of the core section, the clad section being formed by  
sputtering, CVD or vapor deposition.

Q5 17. (Amended) The organic waveguide as set forth in claim  
15, wherein the adhesive layer is formed before the organic  
polymer to be the core section is subjected to thermal  
polymerization.

18. (Amended) The organic waveguide as set forth in claim  
16, wherein the adhesive layer is formed before the organic  
polymer to be the core section is subjected to thermal  
polymerization.

Q6 33. (Amended) An optical part in which an organic waveguide  
and an optical element selected from the group consisting of a  
photo-emitting element, photo-receptive element, and lens are  
formed on a single substrate,

said optical part having an organic waveguide which includes  
a core section made of organic polymer and a clad section

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cont

covering an upper surface of the core section and made of inorganic dielectric having a lower refractive index than that of the core section, the clad section being formed by sputtering, CVD or vapor deposition.

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35. (Amended) An optical part in which an organic waveguide and an optical element selected from the group consisting of a photo-emitting element, photo-receptive element, and lens are formed on a single substrate,

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said optical part having an organic waveguide which is manufactured by a manufacturing method which includes a step of forming an inorganic dielectric layer to be a clad section on an organic polymer layer processed into a core section so as to cover an upper surface of the core section, the inorganic dielectric layer being formed by a CVD method, sputtering method, or vapor deposition method.

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36. (Amended) An optical part in which an organic waveguide and an optical element selected from the group consisting of a photo-emitting element, photo-receptive element, and lens are formed on a single substrate,

said optical part having an organic waveguide which is manufactured by a manufacturing method which includes the steps of:

forming an organic polymer layer which becomes a core section;

forming an inorganic dielectric layer to be a clad section covering an upper surface of the organic polymer layer, the inorganic dielectric being formed using sputtering, CVD or vapor deposition;

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Cord . processing the inorganic dielectric layer into a shape covering only an upper surface of the core section; and

processing the inorganic dielectric layer into the core section by dry etching using as a mask the inorganic dielectric layer.

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Please add the following new claims:

--41. The organic waveguide as set forth in claim 1, wherein the upper surface of the organic polymer layer has been subjected to a plasma process before the inorganic dielectric was formed on the organic polymer.--

A8 --42. The organic waveguide as set forth in claim 3, wherein the upper surface of the organic polymer layer has been subjected to a plasma process before the inorganic dielectric was formed on the organic polymer.--

--43. The organic waveguide as set forth in claim 41, wherein the plasma process is carried out using a gas containing at least an oxygen element.--

--44. The organic waveguide as set forth in claim 42, wherein the plasma process is carried out using a gas containing at least an oxygen element.--

--45. The organic waveguide as set forth in claim 41, wherein the plasma process is carried out using a gas containing at least a nitrogen element.--

--46. The organic waveguide as set forth in claim 42, wherein the plasma process is carried out using a gas containing at least a nitrogen element.--

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Attached hereto is a marked-up version showing the changes made to the application by this Amendment.